

Dune Bugey,
the mew
fast-actlon game from Mushroom

Software

## Software Reviews for: spectrum, BBC, Electron, Ti, Sord, CBM 64

Spectrum Special Three great games to type In

BBC Sharpen your gnashers with our Splurge Eater game!

PLUS
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fletris....

torratils


## Judo star in micro show

Judo star Brian Jacks is to feature in a new BBC TV series about computers.

He will represent Mr Average as he and his wife Julie so through the procest of buying a computer and learnins how to use it, particularly to help their son Philip, aged five.

The new seriss, Micro Live, starts on October 5 at 6.30 pm on BBC 2 with presenter lan McNaught-Davis and director Patrick Titley.

Micro Live will be monthly, followed by a two-hour live show in the summer and then the series goes weekly,

Regular reports will come from * character in New York called Freff and ex-Blue Peter presenter Lesley Judd will report on UK evenis.

Among the items in the firss show is a review of printers for home comptiers, , feature on the break-up of AT\&T, the US phone company, on the eve of the liberalisation and Continsed on mage 5

## Card to Foll pirates

A eredil card cen help stop software piracy, tays Rising Edge Data (RED) which has developed a protection system. Development has taken many months and started because Abecus programs, which owns RED, like many other sofiware publishers, is losing money to the pirates

RED is a simple syatem, claimed to be fool-proof, that can be adopted by any software company or programmer and while it prevents muss copying It still allowi the computer enthusiast to make back-up copies.
The secret of RED is in the digitised security card which is the stme size and thape as a credit card. The reader unit, which plugs into the computer, prevents the program from being sun until the system is sctivated by the RED card.
Each card carries a magnetic coding identical to a program code written into the software for the particular game. Only when the computer can match Continued on page 5

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## News <br> softwere charts ........**.................... 10 Our exclusive guide to best-selling arcade and non-arcade sofitware, plus Top 10s for six home micros <br> Mushroom foftware competition ........ 15 <br> Spot the differences and you could win Dune Buggy, agreat new game, and other software <br> 5 0 .

Letters . . . . . . . . . . . . . . . . . . . . . . . . . . . . 27
The things you say to us. Don's forget, there's free software for the best letters
Classified ads start on

## SOFTWARE REVIEWS

## School's out

 Use the summer break to reinforce what's been taught. It's fun to learn, so they sayFun, and a bit more seriaus ................ 11 Play the games... then try the utilities. But read what our reviewers say first
Cumes, grmes and more . . . . . . . . . . - . . . . . 28 A selection of games for the Commodore 64, Spectrum and TI99/4A


Manapiat Editor:
Ron Harris
Gromp Elitor
Elspeth Joiner

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## PROCRAMS

## Spectrumspecial:

Thrice of $a$ kind
16
Good value for money for Spectrum-owning readers. Here's three fast-moving games to type in, all with good graphics and imagination
BBC . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 12
Sharpen your gnashers with this tasty game by a Home Computing Weekly regular (so it's bound to be good!)

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## R M Summers

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## Iantern.. Cames That Shine



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[^1]
## Judo

## From frons page

privatisation of British Telecom.

Mr Titley said the series would cover the whole world of information technology: "Everything that has a chip in it!'

## Card

From fromt page
the code on the RED security card with the code on the tape, does it allow the game to commence.
This means that although tapes can be copied, the program will not rutn without a RED card - making it useless to pirates.
Managing director Cathie Shaw said: "The ideal situation would be where every person who has a home computer would also have a RED system - then we would have total sofiware protection.'

Mrs Shaw explained that the cost for RED on a business system was somewhere in the region of $£ 20$ and said: "But the cost for 1 home computer will be proportionally less - and I expect it to be about E4:'

Cost of the software should not alter. According to Mrs Shaw: "The cards are very inexpensive, and should easily be absorbed within the profit margins of software companies.'

Rising Edge Data, 716 Llan* gyselach Raad, Swansea

## Sounds great!

Use your Spectrum to create new sounds. Just out from dk'tronics: Beep Amplifier, with volume control ( $\mathbf{( 1 4 . 9 5 \text { ) }}$ and Three-channel Sound Synthesizer (f29.95).

The synthesizer incorporates the beep amplifier to improve sound quality and output. This interface means you can program your own music over a complete eight-octave range as well as control three channels of tone and/or white noise.
dk'tronics, Unit 6, Shire Hill Ind Est, Saffron Walden, Essex CBII 3AQ

## All clued up

Adventure games are gaining in popularity, and the big test for software houses is to find one that stands out from the crowd. Soft Concern thinks that The Code does just that - "tit's an adventure game with a difference", is the claim. The added incentive to complete the game is a eash or computer equipment prize worth £2,500 for the first correct entry.
The Code runs on the 48 K Spectrum and costs $£ 9.95$. When you play the game, you're thrown into a spy thriller scenario. Your time is limited and your mission is to piece together clues and move between the four levels to reach the code room. This is where the real puzzle begins. Hazards you encounter are enemy agents, time bombs and red herrings.


RED's "credit card" system in action

Soft Concern is doing its bit to thwart piracy by coding all copies of the cassette together with the buyer's name and address. If you order by mail, your cheque must have your banker's card number on the back.

Soft Concern, PO Bax 65, Warwick CV34 4 SY

Summer releases from Shards include Operation Safras for the Dragon. Promoted as the long awaited sequel to Pettigrew's Diary, Shards claims it has some of the best sound and graphics available for the Dragon, as well as over 90K of mystery and suspense and a free music tape offer. Price: $£ 7.95$.

Shards, Royenaft Hse, Linton Rd, Barking, Essex

Three new games from Kerian: Crystal Frog, Motorcycle Crazy! and Melidown. They cost $£ .95$ each and run on the 48K Spectrum. Crystal Frog and Motorcycle Crazy! are adventures, while Meltdown is an arcade game.
Kerian, 29 Gisburn Rd, Hessle, N Humberside HUI3 9 HZ

You may remember reading about Database's Micro Olympics. Well, now it's available for the Commodore 64 and Spectrum as well as the Russians. Perhaps this game will be one small step to promoting worid harmony, even if the Olympics fail to do just that...

Database, Europa Hse, 68 Chester Rd, Hazel Grove, Stockport SK 7 SNY

Argus Press Software has launched a series of programs called Mind Games. Three are now on general release, and nine more will be ready by September. They're games of strategy, and the first three are science fiction based. Orion Quest, Quest for Eternity and Star Force Seven have one thing in common: you are in a hostile universe and you have to think your way out of your problems. Initially available for \$pectrum, BBC and CBM 64, they cost $£ 7.99$ for the Spectrum and $£ 9.99$ for BBC and Commodore versions.

Argus Press Software, No. 1 Golden Square, London WLR 3AB



OBI. Send s.ait of titlon still mweisble for Thiste are the ZCBt ilustrated caralogup. Spectrum programs described of the Athough similst in concept the *peciticatione fall shar of the deteriotions given for the Specrrum.
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## SOFTWARE FOR

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 "Bell by leol"
6.00 Simuletid a teal muich suthes of one dey and pool of plovers (Enplend iwn taserm providedi, Rale osch playw's capabilities as bateman and bowler on a one to nine ecale for qualitios zuch sa talent, slfort etc. Pick your toams and play the motch. Electronic scorabourd shown progreas of a match, Fuli *upporting score card und serias averages.

## Fun to Learn 6．12 ABX spectrum E6．95

An fnvitation to enter your name precedes Menu offering sames， option to change sereen writing speed，inter³ name and see total score．

Count has a number of letters which yout must count，Correat answers play in short tune bat wrong answers bring a deep tune and some comment，followed by reptay opation or setura to Mcmu． Mixer a word recognition game，dlows you or the compteter to choose magramt． Onevetter can be requested， which lessens the score．It＇s a shatne upper case to used．

Calculation is where numbers up to four Bigures entered by the
playe ate calculated by the computer offering the four rules 2 －unfortungtely not in scholastic venical formal．
Starship is a Form of Hangman，where an atien zaps a building with every mistake，or your spacestip when you fail， while the ship paps en alion if you are correct．
Codebreaker ellows decoding or coding of a word with one of thret codes on screen（or your made－up pae）of the computer codes of decodes it for you．
Large redefined character set is used throughout．
instructions
$80 \%$
exse of use
$80 \%$
display
value for money

## 布 人 人 人 人

Billy Ball Plays

## catch <br> TT－93／aA E5

Stainless， 10 Alstone Rd，STock－ port．Cheshire
Another game fealuring an amusing character by the name of Billy Ball．Last J saw of him be was it a haictery，here he＇s busy playing carch，

Various items fall down the screen，one at a time，and Billy must catch them．If he misses three times，he will lose a life．

A fierce green monster tries to stop our litile friend，so Billy may either evade him by climbins tadders and Jumping from plalforms，or take more positive action by punching him， should be come too close for
confort．The monster sometimes goes rather red in the face， however，and speeds up his chase for revenge．
If Billy suceessfully catches，a box it the botom of the screen is filled in．When all have been filled he progresses to more difficuli screens．
All have superb graphics， which compensete for the somewhat stow action during the game＇t initial stages，but things definitely＂hot up＂after the fourth sereen．Needs Extended BASIC．joystick．

| Tinstruations | $90 \%$ |
| :--- | ---: |
| playability | $80 \%$ |
| graphics | $90 \%$ |
| value for money | $100 \%$ |

## graphics

value for money
$100 \%$

## 女人 k 大 k 人

$\qquad$

orn 1 Cumbria CA15 6L．L
A combination of Solway＇s three uuilities packs－wilh $\frac{0}{}$ saving of C1．55－which can only be used on $a 48 \mathrm{~K}$ machine．If the programs halts at any time due to an error correction if can be restarted by enter＇ng RUN 5 ．
The contents offers graph platter，linear regression，mean and standard deviation，zeroes of functions，sectangular and polar co－ordinates，circular geometry， triangle solution，regular polygon solution，numerical integration，change of bases， simultaneous equations and quadratic equations．It is not a teaching program－its use is in producing solutions quickly to problemis．
Each section－ending allows return to Contents－shown by a green＇r＇screen top righ－or to repeat that section．
The instructions are carefully planned to take you through from stant to solution，and each program is accessed by pressing the appropriate key shown on the contents list display．
My copy was pre－production， accompanied by 16 A4 sheecs of explanation，so I would be finterested in seeing how those explanations reduce on to a cassette insert－or will a grinted booklet replace them？Fair use is made of the Spectrum＇s potential of music，colour and memory． T．w．
instructions
case of use
display
value for money
75\％

APS．No．I Golden Scuare，Lon－ don WIR 3AB

In this Computerusor program Clever Clogs comes on screen nashing＂Hello＂，giving his name to the accompaniment of nusic and asking for your name．Music announces instructions．which take ug six screens．A menu offers choice of Whacky Block－ bluster－where the compurer explains how to go about it； Blockbuster－where you play： and Blockbuster Quiz－where answering 12 questions correctly allows you to see ane way to complete the pauze．
Layout，colour，sound， graphics and movement are superb making this program a pleasure to play and addictive．

## Blockhuster a8ik spectrum E 2.95

$-2$

# School＇s out for summer 

## Use the summer break to reinforce your child＇s education with these programs．It＇s fun to learn，so they say

The object is to make a rectangle out of 12 blocks．A box is provided to enable you to flip s piece over，and the five levels are sensibly labelled from ensy，to almost impossible cother programmers take wish retate to the rectangle＇s shape． You can quit al any ime－or save a completed puzzle on tape －and are then offered replay or end program facilities．

This program．for age $7+$ ， stretches the train and teaches shapes，relationships and co－ ordinates．A aseful facility is that the questions can easily altered．A prize is offered to throse who send in two answers to level four．
instructions
playabilisy
int．
graphics
$85 \%$
value for money

B

## Shipshapes

 3 ＝ 48k spectrumAPS，No．I Golden Square，Lon－ don W1R 3AB
This tolourful Computertuior program，for use by parent and child，contains flve pames with machine code animation and fively graphics to encourage shape recognition．

My queries would be the inclusion of names in Shapes maker．After inputting up to 10 sided the compiter draws the lshape op screen with its name－ three－yenr－alds knowing nobagons！and Patiera．Make has shapes which can be moved by using cursor keys－why？

That aside，it＇s a pretty program which would entrance ihree－yelr－olds with its use of graphics，enimation and sound． After using this they ought to recognise triangles，circles． diamonds，squares and oblongs． Superb harizontal terolling ＂turns＂the pages and the Index givea choice of sames，each ＊having simple instructions．

Shapesorter has small shapes appearing in a box which must be given a name－correct answers cause Clever Clogs to smite wish a pleasant tunc，but wrong orts make him grimace．

Shipshapes it a game where a helicopter flying over a ship can be made to drop various shapes， depending upop which keys are pressed，on to a ship before it sails．
inslructions
ense of ure
clisplay
$65 \%$
$70 \%$
value for money


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At $£ 299$, the $\mathbf{Z 8 0}$ adds 64 K of usable RAM to the BBC. Micro. And it allows you to use the CP/M 2.2 computer operating system.

It's extremely fast.
And besides giving you access to a vast new area of software, it enables you to use GSX graphics-based programs, the perfect complement to the BBC Micro's own superb graphics.

## Free software and languages.

The Z80 second processor comes complete with five CP/M business programs.

To handle your word processing, there's MemoPlan. It's a program with some highly sophisticated features, such as a safeguard against data loss through power cuts and the ability to show two documents simultaneously on the screen.

To form your CP/M personal database, there's FilePlan. It stores names, addresses, telephone numbers, stock listings and more. And if you use it with MemoPlan, you can generate personalised letters, labels and mail shots.

To produce forecasts and analyse groups of figures diagramatically, simply use the GraphPlan program. This is incredibly helpful in working out vital business calculations, converting them into graphs and charts.

Meanwhile, in the book-keeping department, there's the Accountant program.

Use it to enter day-to-day transactions into the computer. Then, at any time, you can ask the computer to produce lists, summaries, reports, audit trails and trial balances. You can readily expand this package to a fully ledger based system, complete with payroll and more.

Finally, to help you to develop your own programs without having specialised experience, the Z80 comes with another software package called Nucleus. It's a system generator which asks you


## questions

and uses your answers to enable the system to write the

## program.

You can use Nucleus directly with the Accountant program, or for specialised personal or business activities. Additionally, the Z80 package enables you to use three programming languages.

Your BBC Micro instantly becomes multi-lingual.
To simplify writing your own software with the Z80, there's BBC BASIC.

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And then there's CIS COBOL, the leading microcomputer version of COBOL, the language used in mainframe computer applications throughout commerce and industry.

With CIS COBOL, the $\mathbf{Z 8 0}$ also gives you two sophisticated programming aids.

# Macro. 

One is Animator, an award winning debugging tool which enables you to identify programming errors quickly and easily.

The other is FORMS 2, which helps you to write your own interactive programs in COBOL.

With all these sophisticated features, the $\mathbf{Z 8 0}$ package is exceptional value for money. Indeed, bought separately the programs and languages could cost as much as $£ 3,000$.

See the 780 at work.
The Z80 second processor is designed to be used with the BBC Micro Model B incorporating a Series 1.2 Machine Operating System and linked to a dual 80 -track disc drive, a printer and monitor.

Ask your BBC Micro dealer to show you just how far it can go in the world of serious business computing.

For your nearest dealer, ring 01-2000200.
Technical specification.
The Z80 has a 64 K Random Access Memory, running CP/M 2.2 which provides approximately 55 K bytes of RAM for user programs. It operates at a clock rate of 6 MHz . Power supply is integral. Height, 70 mm .Width, 210 mm .

Depth, 350 mm .



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## DRAOM 52

## 1 chuciarins

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gcuthbert in the jungle ToDereftime

## A E F Sotware（．）

 DChatiso Eftesia！ Microcturil（7） Memerotieal（t） Dasis soltware l－j Hicrodial（t）Macrodeal（－1）
Mcrodeal（9） Microdeal（10）

Compiled by W．H．Smith and websters，Figures in brackets are last week＇s positions．
 Hotmecizas
COLL，CGLL Hse，Goldings Hill， Loughon，Essex IG10 2RR

In Spiderh youl must mave a ditle fugure to the orther side of the screen．The difficulty is that you are pursived by large， venomous spuders and you must avoid theis webs．The idea is good and the characters wre well defined．The only problema ts that it＇s incredibly dafficult to get decent score， 50 you＇re left feeling frustrated and engry
Simum ss the MS version of the electronte game．The object is 10 correcily repeat an Jucreasing sequence of colours，numbers and sounds，This is a sood
implementation but I found the orrginal electrontic game borng and the version didn＇t interest me ather．I suppose yous could get hooked if you like the get hooked If
In Gramay，you are in control of the green man whose task is to get the old ladies across the belsy road．The storylane is good but the sound and fraphics could have beeta unfintely better，

These pames are fint for the first few goes but would probably pall atter then．It＇s a shame tarchine codt was not used ）S．8．

## playabulity

graphics
value for money

## 人）

## Pengl

## TFBEMEI

Stamless， 10 Alstone Rd，Stock－ port，Chestare \＄K4 5AH

Pengi is an orrginal game in which a surall character is beng chased by yetws．（Judging by the scenery，the action takes place or －mountan range．）
On the first scretn，you must kill 1 wo yetis，in the second， four，and an the thurd，six，and so 트판

To kill a yet，you must use the space bur to push a block of sec at har Ths inn＇s as sample as It sourris，becatise ceth block of we must trivel over it least one space before hurdig in yeth．If an ice block ts pashed into anolher ne block before moving over any spaces，it will shattet

Thang get really tough when the screen becomes very yeti－ nfested Every time a yeti moves mato black of lce，the lice vanishes，and the more yetis，the less sice

Only a very small portion of the sereen ts used to display the action．This，as well as the lack of sound，is probably to speed the game up，but it does not make fial use of the Tl＇s facalities．
However，very good graphes are used tio the tap half of the sereen to show beauliful，miow－ caped mountams．

J．J．
instractions
70 明
playabulty $\quad 70 \%$
frapluct
85险
walue for moncy
60\％
the t
由entrifiss Th－TIan Exsm
B．Jackson， 21 Rowan Way， New Balderion，Newark，Not1s NG24 3AU

An Extended BASLC cassette Filug program for all those who have either been umable to masten Cile processinti or dan＇s have the ftime or patictice te produce their thown toutines．In some respects it is bester then the Persomal Record Keepins module ${ }_{3}$ in others，worse
For the price，$I$ reckon it＇s very good value．Each file censests of up to 100 ＇curds＇，and each card can contan up to four tiems of information．The name of a file can be up to 14 characters，and the atames of the stetrls of nformation can be up te 20 characters．Each fiem of tnformation can be up to 2， characters，allowing you to store a freater ambuint of date per Item than the 15 offered by the PRK module

However，only four items per page places some resiriction on， for expmple，th eddress book Iile，Arsong the options are Jnsertion，Deletion．Addizion of licmis，and alphanumeric sorung by ilem．Documentation is sparse，but then tutte is needed for a program which is largely self－explaratory For large files， however．cassette stotage it． Ampractical and rether risky，due －mamly to the proble日 of shedding outide and consequent drop－0ut．

1 inseructions
ease of use display
value for morey

P．
8545
$9{ }^{2010}$ $\frac{855}{1005}$

## th th th th

## Play the games．．．then try the utilities．But read what our reviewers have got to say first

## Diot <br> Expatiry Sord मalloss

CGL，CGL House，Goldings Hill，Loughtop，Essex IGIO 2RR

Slot is an amplementation of the popular gambling game，One－ armed Bandit．When 11＇s loaded． the reels are drawn and you start wth an fixed amount of credu When you prest 1，the feets change－absolutely no animation－and your creds is adjusted accordingly to the resula of the seels．
You may be given the chapce to Nudge or Hold as to the real version．I＇m a terible player and have sworn never to play this game，bai in thus version， 1 won money without even looking at the reels and to the end I was desperarely tryng to run out of

## mancy with no success！Games

 shouldn＇t be too diflituls but thus is ndiculousTectancally，the program is just better than awful．What happened to sound effeces and smoath amimarion？
l＇ve always thought imple－ menring gabbling games oat computers was owaste of tume since the mitraction of the real shing was the thought of makitng rooncy and this protram does nothing to clange my view Quate honesty，this progtam wouldn＂t even be worth pribish：ng as a magazane listrag
astrutions
playabilaty
craphes
（mue surencithes
$\stackrel{4}{4}$

## Hur：Te Moisorf TH19ter  T以 <br> PiKaDee， 35 Parker St，Presion，

 Lancs PR2 2AHThrev programs，the most out－ Eanding of wheth is Ti Ludo． It＇s warth ahe money for this flota．The game is for one to four players，The computer witl participete if requested but， 1 warn you，it doea have at uncanny knack of winning
1．Mustic Maker is a brave ittempt al f ditficuli program to produce，for creatine tunes on the Tl，Those you compose may be saved in files and loaded when yout want to play them agan The example is 1 rendering of Lily the Pink

The acteen display showy two staves．Using the cursor keys， zotes，from $\mathcal{F}$ below Madde C to F flat three oclavea ahove this， may be entered，Complete options tre included to changef mistakes and edte notes in Imemory．Tunes may be played as Iwo or three pote chords，or with a very effective echo

Unless you have a basic know－ ledge of music，you＇ll find this dificult to understand and use．

Chrret 1 contant character sets re－defined and their hexa－ dectmal codes plored in DATA stalements to use in your own prograsis．
instructions
playability
graphus
value for moncy


You＇re a gourmet Splurge Eater On this grtd，living in walled dens，are Splurges，wheh are tasty and apetizing．A feast is in store for you．

Wherever you walk around the grid，you destroy the squares you waik on．You can only walk on grid squares，so you need to plan your route．

Full instructions are gwen an the text．Beware the hidden danger－the guardian of the Splurges．Your life us in danger from him．He doesn＇t apprect－ ate the Splurges being cater so ho won＇t let you get off lightly
The game runs on any BBC with in O．S．of 1 or greater． The program is only 4 K ，so there＇s enough room for expan－ sion on a tape system．You could animate the Splurges， using explotion characters，so that they appear to die zway． You could add speech if you have e espeech chip．If you know machine code you could speed the game up，as after grid ？the response speed of the Splurge Eater slows down slightly．

Type in the first program and save it with the name SP－INTR． Then type in the tecond listung and save it with the name SPLURGE．

## PROCedures

MAN IInet $90-360$ Thus PROC－ edure moves the Splurge Eater around the screen in response to keys pressed．It also anumates the movement of the Splurge Eater＇s mouth and calls up the procedure to MOVE LINE when the TAB key is pressed
This procedure also detects of the Exter has caten a Splurge and if so it calts up EAT SPLURB．If the Eater is trying to move on to a blank square instead of a grid square，the procedure will nol allow it to move


MISSILE Bnes 380－590 Thus PROCedure contams the loge for the missile to home in on you and the routme to make it move actoss the screen without destroyng what is already there．
This routme does not wark properly and will sometimes erase what is below it：this is no major problem bul you may like to solve it．The homing routtre from $400-300$ works but could do with some mprove－ ment．
Set Up Hinet 610－850 Ths PROCedure draws up the grid and possions Splurges around the screen making sure two Splurges do not overlap．
The number of Splurges printed is calculated al line 740 using the difficully number as the random number seed．This means exch new game has different numbers of Splurges appearing on the same board and you don＇t get a steadily increasing emount of Splurges as you progress through the game．
FN READCH（X，M）Hinem 870 910 This functoon calls up a machine code roulme generated by PROC ASS．Thus routine is used a great deal so machune code was necessary．What it does is read the value of a character at the lacmition provided by $X$ and $Y$ and return that value in C ．
KII．L lines $920-1000$ This PROCedure generates the graphics and sound effects when the Splurge Eater is caught by the missile．One is deducted from the number of men you have left and then the board is see up agan．
EAT SPLLRB lines 1020－1060 Thus PROCedure is called when a Splurge is earen．It generates a sound effect and adds 10 to the player＇s score．
New glourd Hites 1080－1210 This PROCedure is called when all Splurges have been eaten．It calculates the bonus，depending on the tume taken to clear the board．The bontus is printed on the screen，the reward tune is pjayed and the screen is anumated together with the tune．As this happens every time a board is cleared the tune and display may get abr tiring so if the spate bar is pressed during the routine the music wall stop， The speed of the MISSILE is increased，the bonus added to your score and a new board set up．
Score Board lines 1230－1250 AGAIN Inne 1270－1390．This Procedure is called at the end of the game．It prints your score and tells you if you have the high score．It then asks you if

## Wrap your lips around some tasty morsels． This exciting game by Kevin Boyd is well worth the time and effort of typing in．It＇s a hit！

you wish to try again．
MOVE L［NE IImet 1．410－1500 This PROCedure is called up when the TAB key is pressed． The routine moves the line the player is on one space to the left and deducts 5 points from the players score．The routane witi nof work if the player does not have enough points to pay for the move or if ti Splurge is al the end of the line and would disappear if activated．If this happens warting buy will sound．
ASS tines 1520－1610 Thus PROCedure assembles the machune code used by FN REACH，The routune trake up 90 bytes and is stored in variable memory it line 1530 ． IDEATH TUNE lines 1620－1700 This PROCedure plays the death march at the end of the game before PROC AGAIN is cailed．


DEL ${ }^{\text {on }}$ counter 10 determine speed of missile
SPEF．D delermane speed of missile
LVFib\％number of Splurge Ealers left
SC．E score
H．sco high score
BHD\％board number
MANo character used for Splurge Eater，used for anmation af Eater＇s mouth
NE ${ }^{\text {a }}$ dag set when new board is required
PX年，PV Splurge Ealer＇s $X$ and $Y$ co－ordinales on screen MX\％，MY mussile＇s X and Y co－ordinales on screen
CR ${ }^{\circ}$ contans valut of charac． ler at location returned by FN KEADCH
OtDC＊hold the value of character 10 which missile is about to move on，used to reprint character after missile has moved to another loca
－
SPL\％number of Splurges ealen ANM amount of colours used，in setiong up and ammatung grid COL．\％（）miray holding possible colours for anmation
t 5 used in MOVE－LINE proc edure to hold conlents of line being moved

## 


2 REM © 5 PLURBE＊
3 REM to NRITTTEN Et
4 REM＊KEV
5 REN B K KEVIN BOYD
6 REM 부 DEL RS to JAN 日4

E
10 KEM DEFINE CHARACTERE \＆ENVALDPES

20 vDU25，233，153，126，24，165，165，24，126，455，23，234，46 ，126，24，102，102，24，124， 464

30 VDU $23,235,66,102,24,90,40,24,102,66,23,236,64,34$,
$24,46,46,24,36,66$
40 VDU2 $233,2,34,24,36,36,24,36,0,23,238,0,0,24,24$ ，
$24,24,0,0$


70 VDU23，22b，\＆FEFEIMFEFEFHFEFE；HOOFE

90 ENMELOPE $1,18,1,-1,1,1,1,1,120,-4,0,3,126,0$
100 ERNELDPEZ， $1,100,127,100,1,1,1,100,-3,-2,-1,80,0$
110 EMVELOPE $3,133, B, 4,6,3,1+1,12 b, 0,0,-10,126,0$
［20 ENVELOPE4，1，0，0，0，200，200，200，0，－1，0，－126，126，0
130 ENV直 DPES， $1,20,-2,1,10,5,10,30,-4,0,-5,126,00$ 140 REM＝＿INTFOC

## 180 PRDCTIT


 Dn the frity！＂


 cesed plan thera you to viry carefaly＂
 ded malls．at tisen two malk wilim＂Ce＂averlap dentroys ng any path inte the＂＇cengeruper．Bo a ofth mover hes b


200 PRINTC＊＂You ara on one mpacin to the left．＂＇C事＂Thi

 tne the factltty

2to PRINTCs＂or it a fiplunge in tit the end of the＂ce＂ line and would alinipatir if ured，＂
 BAR TO CONTIME F＂
230 A＝GEt：if $A<>32$ eOTOZ30
240 PROCTIT


 hald of vou！80 bewte？＂



 EACH＂；CFCHREI3＂BOARD DEPENDINE ON TIHE TAKEN．－
 ACE BAR TO CONTINEE［＂

300 A－GETtIF Aく＞32 日0T0300
310 PRDCTIT

330 VDU2日，10，22，30，20
340 CHAlN－spluncor
350 END
340 DEFPROCT1T


IPRINT＂${ }^{\text {E }}$ ELUREE E
390 ENDPROS

Lusting 2
L． LB
10 TV25s
20 DIMCOLX（9）IMECK－J0
30 PAOC ABE



Bo PROCSEt＿Up
وO AEPEAT
100 PROC MAN
110 PROCGICOR EPourd
120 IFNHX－INEXYOIPAOCNHW，Boary

140 UNTILLIVESX＝0
150 PROCDEATH＿TUNE
（60）MODE7TPRDC＿AGAIN
170 B0TO40
190 DEFPROC MAN
200 IFJNKEY（－耳日）ANDPX\％$>0 \times X=1$
210 IFINKEY（－b7）ANDPXX
220 IFI事EY（－10゙）ANDPYZ＜30YX＝1
230 IFIRKEY\｛－73）ANDPYX） 1 YX＝－1

250 ［FXX－OANDYXGOTHEN320

270 \＄FCRX $\mathbf{3 2 G O T O} 320$
280 IF CRX $=1305 \mathrm{CX} \mathrm{mSCX}+11$ SOLND1， $2,210,1$
290 IFCRX＝137PROCEAT SPLUFB
300 VDU31，PXZ，PYX， 32
$310 P X X=P X Z+X Z, P Y Z-P Y \%+Y Z$
320 1FMONX－223MANX＝227ELEE IFMANK＝227MANK＝223
330 com，OURZ
340 VDU31，PXX，PYZ ${ }_{1}$ HANY
$580 x y=01 \sqrt{2}=0$
340 ENDPROC
390 DEFPRDC HASSILE
390 F 221.0
400 ［FPXX＜MxXXX -1

420 1FPYZく 1 YXXYZ－1
430 1FPYY SHYKY̌－1
440 CRX FFNREADCH（ $4 X X+X X, H Y X+Y X)$
450 IFCRZXCJZTHENEIO
460 TFFNREADCH（MXX

490 IFFNFEADCH（MXX，MYX－1）＜ $332 Y Z=-11 \times x=0$
500 IFF NPEADCH $(H X X+X X, H Y X * Y X)=137 C R X * 137$
sio OONDO，－，2．1
320 CM，OUR4
530 VPUS1．NXX，MYX，DLDC
540 OLDCX－CAK

360 comouts

500 1FLRX1 1290 PICRX＝131PRDC＿KILL
590 Y久
alo DEFPADCBet＿ 4
420 TIMEMA
030 LOCAL 1\％，J\％，FL


640 ReEFTMEE 680

$\times 7$
6ВO DATA 4，5， $0,0,10,11,12,13,14,15$

700 FDRIX＝OTOI 9

720 CX＝CX＋1\＆IFCXMANN C2．0
730 WIXT．
740 COLOURYIDIFXGRD（DIFX）IFGAPX＝OTODIFX
$750 I x=6+R N D(12) 1 J X=5+R N D(20)$
760 FL＝ 1 FCHOXe1
CH（樶，w
770 1FCRX＜$>130$ F－ 1
790 NEXT
790 1FFL－ $1 F L=01$ BOTETSO


MEXT
820 FORUY＝-1 TO1\＆VDU31， $1 \%+1,5 \%+U \%, 32$ ，NEXT
830 NEXT
640 VDLSI，PRX，PVX，MANX
050 ENDPRDC
日 70 EFFFNREADCHIX，$Y$ ）

890 COLLEEC
$900 \mathrm{C}=7475$
$910=C$
920 DEFPREC KILL
930 LDCALEX
940 604 $100,-15,7,15$


960 SOUNDO，1，4，20
970 FDRD $=0$ TO1000：NEXT
9e0 LIVESZMLIVESY－1，IFLIVESK＝0ENDPRDC

## BRE PROGRAM

## 990 PROCSet_Up

1000 ENDPROE
1020 DEFPROCEAT SFILURE
1030 BDUND $102,3,100,10 \%$ SOUND $103,3,100,10$
1040 SC $x=5 C=10+G P 12=S P L x+1$
1050 IFSPLZ $=$ DIFX+1NBK=1
1080 ENDPROC
1080 DEFPROCNEw BPard
1090 BN= 300 -ABS (INT (TIHE/\$O)

; TAR \{3, 11才; SPC(13)



$1130 \mathrm{CX}=\mathrm{CX}+1$ IF CX=ANH CXOD

1140 1FIKKEY(0) | $12 F-33$ |
| :--- |

1150 NEXT
1140 DATA149,6, $149,4,157,2,141,2,149,4,147,4,165,4,149$
$, 4,149,4,149,4,237,2,141,2,149,4,169,4,145,4,149,4,149$, $4,167,4,185,2,177,2,169,4,149,4,157,4,157,2,149,2,157,4$ , 129, 4, 124,4,137,4,141,4,149,4,137,4,121,8

11 10 1FEPEED OOEPEED=BPEED* 5

1200 PROCget U
1210 ENDPROC
1230 DEFPROCEcdre Baard
 15, D ) [LIVEEX
1250 ENDPROC
1270 DEFPROC AGAJM

1290 IFECx<HSCXGOTO1330

1310 HECXwscx
 NEXT.





## 1370 a0Tat 340

1380 CLSIPRINT * * AHEDP
2350 PRINT"*"Loak at all the nica chtpityou tuve in Y مur tonputer why nat ure onn today!"aEND
1410 DEFPROCHDVE LIME
 00,10
 MEXT

उ- 1 1 $0,0,10$ EMDPRRDC
1450 L

1470 CDLOURA

1450 BCx-scx-5
1500 ENDPRDC
1520 DEFPRDC_ASE
1530 DIFBPACE PO\& PK-BPACEIDSNNFEE

1550 [DPTIX
1560 PEC


00
 1600 ATEIDINEST
1610 ENDPROC
1820 PEFPRDCDEATH TUNE
4FO PE日TORE1470 FDRIO1TO29, READCH,EN,FC,DU
469 BOUNDOH, EN, FC. DU
1640 EOUNTOH, EN,FC, DU
$1 \Delta 50$ NENTIFORI=1TD4000 FEXT
1640 ENDPRDC
1679 DaTh 40201, $-10,14,14,20202,-10,45,35,10203,-10,53$
$, 3,1,0,0,1,1,-10,81,12,1,0,0,1,1,-10,84,4,1,0,0,1$

$35,1,0,0,1,1,-10,73,12,1,0,0,1,1,-10,69,4,1,0,0,1$
1600 DATA $10201,-10,89,1,40202,-10,01,36,40203,-10,4 y_{1}$ 16, $1,0,0,1,1,-10,81,8,1,0,0,1,1,-10,1,12,1,0,0,1,1,-10$

1700 DATA $10201,-10,41,32,40202,=10,61,32,40203, * 10,45$ . $\mathbf{3 Z}$


## COMPETITION

Prizes to a value of over $£ 1,000$ are offered by Mushroom Software in this week's competition.
20 first prizes of Extended BASIC for the Commodore 64, together with Dune Buggy and Super Scramble, two sew games.
With Dune Burgy, you have just spent holaday fo the African desert and you are reteraing lhrough the Customs barrier. Lnfortunately, you are carrying a faif amount of smageled goods and as you reach the barrier tension becomes so intense that you 'flip" and bursi through the batrier.
Customs offcials do not lake kindly to your atresupted escape, and launch an attack on you wath helicoplers and Iireballs. You have the chore of ewther firmes at the offenssve objecti, or jumping over them
Graphacs on this game ver perticulasly good, whth the screen split seven times to give in realusac effect
In Super Scramble, you are the pilot of a rocket shsp, and your mussion is to destroy both the rockets launchang by shooting at Ihem, and the fued dumps on the ground by bombing. This futssion will take yot through seven screens (if you're sood enough), whit the fingi part being to bomb a glant mushroom.
Once gagn, special care has been taken with the atraphucs - fifeature thei Mushroom Software intends to keep with ati the games if produces.
Add to these two games the Exiended BASIC, and thas makes ench one of the 20 winntrs' packagers worth en tornt of $\mathbf{t 3 2 . 5 0 \text { . }}$
There are also 27 rensers-up prizes of each of the two games
You could be one of the praze-
> new titles Dune Buggy and Super Scramble

Here is your chance to win more than $£ 30$-worth of software for your commodore 64, including
wnners by jusi lindeng as many differences ${ }^{\text {d }}$ possthle in the twa cartoans

## How to enter

Study the two cartoont - there are a number of differences berwatin them. Circle the dsfferences on carton $B$ and seat the cartoon and coupon un an envelope. write clearly the number of differences you found on the back of the envelope.

Port yoth entry to Mushroom Software Competition. Home Computins Weckly, No. 5, Golden Square, London WiR 3AB. Entries close at first posi on Friday Augusi 31. 1984.

## Name

Address
hadress

## _- pos code

Number of differences found on lbe beck of yout etrelope


## Mushroom Software Competition

## Entry Coupon

Enirien wall not be acoepled from employeer of Argur Specialist PubtcmLars, Mushroom Softwire und Alabab. ter Pasmmore \& Soms. Thas reatriction also appliss to employent familien and agens of the companits.
The How to Enter Eection forms part of the rules.

$\qquad$






## Starfox by Paul clarke

Are you a mame marksman? Do you spend hours glued to your TV screen intent on eliminating aliens?
If so, this game is for you. It's a varation on the old arcade classic, Defender. Thus time you're also faced with the terrifying onslaught of an alien which fires at you unremittingly. Thes hostite aggressor gives you no rest, so use all your skill and experience to fight yourself out of this one.
Instructions are printed on screen and each alien counts for different points. Be warned: don't get too close to the UFO!

[^2]
## Siafox Viriabiter

a.b your ship's co-rdinates
$\mathrm{x}, \mathrm{y}, \mathrm{c}, \mathrm{d}, \mathrm{e}, \mathrm{fi}$ ish aliess' co-ordinates
os land
H5s land
of fire
af lives
1c score
hl hs-score

## Hanct How in worlu

 1-1000 varizales$1000-1200$ set up screen $1500-0999$ wain hoop 70e0-7999 fifth level 8000 tuthes 9000 UDGis

```
M
se score
he m-score
itdia fireball's co-ordinates ad,san arrow's co-ordinates posd, posk, your posilion dir rope's posituon (level \$)
- control vartables - is there
an srraw?
f contral variables - is there a firchali?
lev level
II lives
```


## Hurich bystophen Forde

Take pity on the poor old hunchback of Notre Dame. Help hum ring the bell and escape Esmerelda, whle avouding flying missiles from the ground.

He deserves to be given a heiping hand - no-one else will help him. Do your good deed for the dey and feel better for it.

Thes is a multo-level version for 16 and 48 K Spectrums, 30 your skillis will be rewarded by new screens to conquer.

This game has greal graphics and we're sure you'll find ats entertanngs and fua to play.

## Three <br> You get good value for money here - three great games for the price of one. They're alienzapping specials, with good graphics and imagination

。
## Cells by stephem Corie

Mutant cells will destroy the world unless you can top them. An eccadent at a chemical factory has unleased on the unsuspecting world a horde of cells which is placuns our lives in peril.

Shoox down the cells and save us all from destructuon!

## Cello

Veriables
 allens' co-ordinates
sow, poed, your ships' co ordinaten
5 score
b hi-score
If control varinble to check if you are linns
$x, y$ co-ordanates of simisi

## Cells

How it worta
Cells is very straghtiforwird and ideal for beginnere to learn from. 1-1000 variables, instructions 1000 manh loop 9000 UDGs

## Elats an converalon

 Spectrum BASIC ls farrly chadard, wath tome untque commandsJNK Jee the writing coldur
BORDER tet the border colour PAPER st the background colour
INEEYS theck whuch key Ls pressed. Some micros use GET for this purpose
BEEP sound. Oiher mecros may be able to enhance this game with lond explesions.
DATA Eel yraphics.

Latang for Siarfox

```
    1 LET MI*C
    2 LET p=1
    3 BORDER G: PAPER DI INK 7: CLE
    4 GO SUB 30GE
```



```
    \square
```



```
    G":AT
```



```
    11,9
```



```
#
```



```
"Y" THEN EO SUS SODO
            CLS
    20 60 SUP 2000
    30 60 SLB 100%
```



```
(2 T0) +b*{1)
    41 PRINT AT 2,2;"SCDREs "%:
    42 LET i=INT (RND*14)+6: LET J=INT (RND*27) +2
    43 PRINT AT 2,24;"HI:";hi
    45 PRINT AT 2,14;*SHIPSz";咅f
    46 IF Efm0
```


# fat kind ：－ grams，capital letters in PRINT state－ ments should be added in GRAPHICS mode，unless they form words． 

```
    Sm PRINT AT M,b;"GE";AT a+i,b;" ";AT m-1,b;" *
    60 LET B=a+(INKEY*="6")-{INKEY**"7")
    70 IF INKEY急回" THEN BEEP - 01,45: PRINT AT a,b+2; INK 5;CS;AT a,b+Z;"
                            "# IF a=x THEN PRINT AT }\mp@subsup{x}{*}{
    PRINT AT X.Y%" =3 GO SUB 1010
```




7
1


-
ef-1: LET :E11: 60 TO 59

-
f-1: LET =11: 60 TO 50

95 IF $y<=1$ THEN PRINT AT $x, y)^{\prime \prime}{ }^{\prime \prime}$ ? LET $y=2 \theta:$ EO TO 90



LET cec-1: LET dad-1: IF d<=1 THEN PRINT AT C,d;" ": LET de2G

-
-f-2z IF $\quad>=20$ THEN PRINT AT 19, 3 ;" "2 LET E=6: LET $f=28$

*
30: PRINT AT $-1,4+3 ;{ }^{\circ}=$

E


140 IF g<mb THEN PRINT AT $9+1, \mathrm{~h} \% \mathrm{~m}^{\prime}$ : LET g=20: LET h=15

1
5a PRINT AT g,hi" "B EO TO 50

T
- b; " "


$\qquad$ ＂ T0 j－4）I BEEP ．BD1，B：PRINT AT i，4；${ }^{\circ}$

1

- PRINT AT E,b:" *g LET a=11: GO TO 50
255 PRINT AT $i, 5^{\circ}{ }^{\circ}$

* 

170 IF ac>hi THEN LET hi=玉c
900 PALSE $p:$ GO TO 40


930 FOR 1-1 TO LEN d*: BEEP (VAL d\$(1))/6, VAL E*(1): NEXT 1
940 RETURN

$\qquad$ EGFE $\qquad$


EGEGEGEG
1001 LET $a=11$ ：LET $b=2$
1002 LET c\＄＝＂ $\qquad$
1003 LET sc＝0；LET sfx3
1004 LET ᄃ＝5：LET $\mathrm{d}=15$ ：LET E＝6：LET f＝29：LET g＝2日：LET h＝16
1010 LET $x=$ INT（RND＊13）＋7：LET $\gamma=25$
1020 RETURN
2000 PLOT $0,146:$ DRAW 255，0：DRAW 0，25：DRAW－255，0：DRAN 0， 25
202 RETURN

31月10 DATA $129,192,224,255,255,255,62,0$
3020 DATA $0,0,0,24 B, 252,252,0,0$
3036 DATA 24，36，66，153，153，66，36，24
3040 DATA 34，54，62，42，62，62，28，8
3050 DATA $27,68,17,149,34,0,72,1$
3066 DATA $1,2,4,6,16,32,64,128$
3070 DATA $129,64,32,16,6,4,2,1$
30190 DATA $16,56,124,124,124,124,109,68$
400 D DATA 2日， $22,107,62,73,34,73,34$
4816 DATA $B, 24,36,66,129,255,255,36$
5000 CLE J PRINT TAB $10 \%$＂Q STAR FOX D＂
5010 PRINT＂．＂YOU are the last dafender＂hip．＂＂Your job is to destoy the alians


E＝1001～
5020 PRINT＂${ }^{\circ}$ DON＇T get too closi to the LFO＂MAND watch out for the star FOX＇！＂ 8 PRINT TAB 10；＂GODD LUCK＇＂

5040 IF INKEY事＂M THEN ED TO 504日
3045 CLS
 ＂
5068 FOR n＝1 TO 20：BEEP．1，INT（RND＊45）：NEXT $n$
5670 CLS ：RETURN
GORI PAPER 7：CLS ：PRINT AT 10，10；BRIGHT 1；FLASH 1；INK G；＂GAME QVER n

6920 PRINT \＃1；＂Press any Key＂
6 G3A PAUSE 0
GO40 PAPER D：INK 7：CLS ：GO TD 7

Listing for Huneth
1 LET Sc＝Dz LET hs＝0！INK 7z PAPER B\％BORDER GE CLS 3 GO TO EDOD
2 CLS 1 LET lev＝0；LET 1 im ：LET Acc＝0
3 CLS ：LET $f a=24$
5 LET ba＝10
7 LET $a=0$
－LET $f=0$
9 LET dir＝0
70 LET fd＝12：LET $f a=27$
30 LET ad＝12：LET $a=24$
48 LET posd＝12：LET posami
100 RESTORE ：GO SUB 9500
116 LET $a=0:$ LET $f=0$

1 ह日1 LET 1 ev＝1 ev＋1
1004 IF lev＝5 THEN GO TO 70月G

LET sc＝sc＋500：LET acc＝0
1007 PRINT AT 7，D；INK 2 ；
100日 PRINT AT 日， $30 ;$ INK 2＂${ }^{\circ}{ }^{\prime \prime \prime}$
1009 PRINT AT 6，b；：CORRIDOR＂；lav
 0

1 D11 PRINT AT 13，D；INK 2；MEFEEEFFFEEFFEEFFEFFFEFEFFFFFFFFFFEFFFFEF FEFFFFFFFFFFF
EFFEFFFFFFEFFFFFF FEEE F F F FFFFFFFFFFFFF FFFFFFFMF FEFFFEEFFFEF

FFFFFFEFEFFu
1015 PRINT AT 3，11；＂SCORE＂Bse

1017 PRINT AT O，18；＂LIVES：${ }^{\mu}:$ IF $1 i=0$ THEN PRINT AT D，25；${ }^{n}$
101日 IF Li＝1 THEN PRINT AT 0，25；INK 4；＂Iन＂；AT 1，25；INK 4；＂F

1020 PRINT AT posd－1，poser INK 3；＂E＂；AT posd，posai INK 3；＂E＂

 ；
＂C＂；AT 13，23；INK 2\％＂Q＂；AT 13；26；＂D＂
1050 IF Lev＞2 THEN LET fa＝24z LET $a=1$
$106 G^{1 F}$ lev＞3 THEN LET aa＝21z LET $f=1$ ：LET ade－21
1070 PRINT AT 1，2；＂RONLS－
1079 IF mec－0 THEN PRINT AT 1,$8 ;{ }^{\prime \prime}$
1000 IF accel THEN PRINT AT 1，B\％＂G＂
1081 IF ace＝2 THEN PRINT AT 2,$8 ; \mathrm{m}^{\mathrm{c}} \mathrm{G}$＂

1100 PRINT AT posd， $0^{\circ}$＂
＂；AT posd，potion INK 4；＂
1200 BEEP ．5，B：BEEP ． 5 ，D：BEEP ．3，0：BEEP ．4，5：BEEP ．4，4：BEEP ．4，0
1499 REM MOVE
1500 PRINT AT 3，11；INK S；＂SCORE $\quad$＂＝PRINT AT 3，11；INK 5；＂SCORE＂；＝
1501 IF $11<=0$ THEN GO TO 白め00

1503 IF INKEY末＝＂h＂THEN PALJSE 0
1504 IF INKEY末＝＂•＂THEN EC TO BOO日



 1610 IF INKEY\＄＝＂m＂THEN PRINY AT posd，posif＂＂；AT posd－1，posajn＂g PRINT AT
 P
．005，14：LET צC＝玉C＋20：PRINT AT posci，posa；＂＂；AT posd－1，posa；＂＂g PRINT AT posd－2，posa＋1；＂＂：PRINT AT posd－3，posa＋1；＂＂：LET posampora＋2
1630 LET fa＝fa－1

1640 LET aaman－2
1660 IF $f>0$ THEN PRINT AT ad，aa；${ }^{n} E{ }^{m}$ ；AT ad，aat2；＂＂
1665 IFa＜＞0 AND fa＜ 1 THEN PRINT AT fd，fa；＂＂：LET fam26
1670 IF $a=1$ THEN PRINT AT fd，fa；＂$\underset{=}{ }$

6990 IF lev＞1 THEN GO TO 9500
6997 Gロ TO 1500
70at CLS ：PRINT AT 13，0；INK 2；＂F゙EFEEEFFFEF＂；AT 14，D；INK 2；＂FFFFFFFFFFF ＂；AT 15
，D；INK 2；＂FEFFFEEEFFE＂；AT 16，D；INK 2；＂FFFFFFEFFFE＂；AT 17，D；INK 2；＂FEF FEEFFEEE

70012 PRINT AT 13,21 I INK 23＂EEFFEEFFEEF＂；AT 14，21；INK 2；＂FFFFFEFFFFF＂；
AT 15,21 AT 15，21
FINK 2；＂EFEEEEEEEEE＂；AT 16，21；INK 2；＂FFFFEEFFEFF＂；AT 17，21；INK 2；＂FFF
FFEEFEFE ＂
7002 PRINT AT 21．D；INK 7；${ }^{\circ}$
RESCUE ESMARELDA＊
7003 PRINT AT 17，11；INK 7；＝anadimananne
7004 LET PDSa＝2：LET posdy＝12：LET dir＝
7005 PRINT AT 1,0 ；INK $2 ; "$
7006 LET dir＝0

7007 IF $1 i=0$ THEN GO TO B500


 ，posa；＂＂：LET li＝1i－1；FOR r＝pOSd TO 20：PRINT AT r，posa＋3；INK 3；＂E＂；AT r－1， P
osa＋3；INK 3；＂A＂；AT $r-2$ ，posa＋3；＂＂；AT r－1，posa＋3；＂＂：NEXT r：BEEP 1，－5：BEEP 1 －10：GO TO 70.0
7012 IF pDSa＝9 AND INKEY $\${ }^{n} m$＂THEN PRINT AT posd，posaß＂＂яAT posd－1，posag＂
 3
 s－2，posa＋1；＂＂：PRINT AT posd－3；posa＋1；＂＂：LET posa＝21
7013 IF poma＞25 THEN CLS 3 INK 7：PRINT AT 1D，7；＂CONGRATULATIDNS＇＂；AT 12，1；＂YOU HAVE RESCUED ESMARELDA＂${ }^{\prime \prime}$ PRINT＊＂NOW GET HER OUT OF THIS DNE．．${ }^{\prime \prime}$ ：FOR $j \times 1$ TD 3DD：NEXT is LET sE＝SC＋100月2 GO TO 3
7015 IF posa＞＝1 AND INKEY\＄＝＂q＂AND posa＞＝1 THEN BEEP ．005，D：LET posa＝posa－1 7a16 IF posa＜B AND INKEY $\$=" m$＂THEN PRINT AT posdiposa；＂＂；AT posd－1，posa；＂ ：PRINT AT posd－2，posat2；INK 3；＂E＂：BEEP ．00S，10：PRINT AT ．posd－3，posa＋2；INK 3
 d－2，posa＋1；＂$\because$ PRINT AT posd－3，posa＋1；＂${ }^{\prime \prime}$＂LET posamposat2
7017 IF posa＞10 AND posalig THEN LET lı＝1i－1z FOR g＝posd TO 2D：PRINT AT g，pOSa

$-10 \%$ GO TO 7000
7020 IF dir＝3 THEN LET dir＝0
7021 LET dar＝dir＋1
7 7022 PRINT AT posd，posa；INK 3；＂Er＂；AT posd－1，pose；INK 3；＂F＂
7025 IF dirm THEN FOR $f=1$ TO 10：INK 7：NEXT $f$ ：PLOT 132，155：DRAW－49， $75:$ IN K D：PLOT 132，155：DRAW $-49,-75$ ：G0 TO 7010
7030 IF dirm THEN FOR $4=1$ TO 10：INK 7：NEXT f：PLOT 132，155：DRAW－8，－76：INK
0：PLOT 132，155：DRAW－ $0,-76$ 50 TO 7010
7935 IF dir＝3 THEN FOR $f=1$ TO 10：INK 7：NEXT $f:$ PLOT 132，155：DRAW 49， $75:$ INK
D．PLOT 132，155：DRAW 49，－75：GO TO 7010
7050 IF dir＝3 THEN LET dir＝2
7999 G0 TO 7010
BEOD CLS ：REM DEAD＇
0001 IF sc＞hs THEN LET hs＝\＃cs LET sc＝0
Q009 PRINT AT 0，4；＂CURRENT HI－SCORE IS wihs
日010 PRINT AT 2,$2 ;$ INK INT（RND＊7＋1）；＂
昭 11 PRINT AT 6,2 ；＂This is the Spectrun version of the classic arcade game． Fight your way over the battlements to rescue your beloved Esimer elda＂
B912 PRINT AT 13，4；＂Use the following keys：＂：PRINT AT 15，7；＂q＝left＂；AT 16．
7；＂Wright＂；AT 17，7\％＂m＝jump＂
日G13 PRINT AT 20，6：＂PRESS 5 TO CDNTINUE＂
日旬14 IF INKEY\＄＂S＂THEN GO TO 2
8499 GL TO BO10
8500 IF lev＞1 AND poぁa＝3 OR posa＝6 OR posa＝14 OR powa＝22 OR posa＝23 AND $1 \mathrm{EV}>1 \mathrm{TH}$
 BEEP 1，－10：PRINT AT posd－1，posa；＂＂：PRINT AT posd，posaj＂NE LET acE＝G：LE T posames GO TO 1010
 T AT posd， 0 ；＂
 1010
B520 IF $a<>6$ AND posa＝fa DR posa＝Fiz－1 AND a＜＞0 THEN LET 1i＝1i－1：PRINT AT pOsd， $0{ }^{\prime \prime \prime}$＂：BEEP 1，－5：PRINT AT fd，fa；＂＂：BEEP $1,-$ 1■：PRINT AT posd－1，posaj＂＂3AT posd，posa；＂＂；LET acc＝0：LET posa＝2：GO TO

## 1010

8998 GO TO 15010

## 9499 STOP

95Gb FOR f＝USR＂an TO USR＂k＂＋7：READ a：POKE f，a：NEXT f




 1110011，255，255
954 DATA $16,32,64,255,255,64,32,16$
9550 DATA $0,126,126,126,126,126,126$ ， 0
7560 DATA BIN $\bmod 11000$, BIN 00111109, 日IN $01111110,253,0,255,8,8$


 $01000100, B I N 11001100,0$
9999 RETURN

Listing for Cells

2 BORDER D：PAPER D：INK 7：CLS ：PRINT AT 10， 9 ；PAPER 1；PAPER 4；INK D；FLA SH 1，＂PL tase mait＂：GO SUB 900

3 CLS I INK 7：BORDER D：PAPER 0

5 PRINT＂＂Would you like instructions（y／n）＂2 INPUT i\＄
7 IF is＝＂Y＂OR 1 丳＝＂Y＂THEN GO SUB 日000

2
 ＂

2

10 REM＊＊＊VARIABLES＊＊
13 LET a4a＝1
15 LET hs＝』
17 LET selas LET Mits＝0
2白 LET posa＝10：LET posd＝20
30 LET $1 \mathrm{a}=1 \mathrm{NT}$（RND＊30）+1
40 LET a1dx5
50 LET a2a＝INT（RND＊3a）+1
60 LET a2d＝5
70 LET 3 3d＝5： LET a3aEINT（RND＊29）+1
100 LET $f=0$
200 REM＊＊\＃SET UP SCREEN＊＊＊
210 GORDER 0：PAPER DI INK 7：CLS
220 FOR $f=1$ TO 50
230 LET $x$ RRND韦240
240 LET $y=R N D * 175$
250 PLDT $x$ ；y
260 NEXT +


302 PRINT AT 1，12；4HITS＂；hits：IF hits＝15 JHE
$R \mathrm{q}=1$ TD 15：NEXT q：GO TO 100 A
303 PRINT AT 1，20；＂HI－5CORE＂ 3 hs
305 PRINT AT 1，2；＂SCORE＂；s
307 PRINT AT 5,$0 ; "$
310 IF poga＞3 AND INKEY $\$={ }^{* \prime} 1^{\prime \prime}$ THEN LET p
320 IF posa＜27 AND IMKEYs\＃＂ $\mathbf{2 n}^{\prime \prime}$ THEN LET posa＝posa＋2
330 IF INKEY $\$=00^{\circ}$ THEN LET $f=1$
400 BEEP－ 005,1 ：PRINT AT posdiposaj INK 5；＂if m
410 PRINT AT ald，ala；＂
420 LET 1d＝ald＋1

```
430 LET ala=ata+1
440 PRINT AT ald, ala; INK 2; m E m
450 IF ala>25 THEN PRINT AT ald,ala;" " \({ }^{\prime \prime}\) : LET a1a=1: GO TO 300
460 PRINT AT a2d,a2a;"
470 LET a2d=a2d+1
```



```
490 FRINT AT a2d, a2a; iNK 4; " 日
491 PRINT AT a3d,a3a!"
493 LET a3d=a3d+1: PRINT AT a3d;a3a; INK 6;"E"
496 LET a 4 ama \(4 a+1\) : PRINT AT 4, a4a; INK RND*63 \({ }^{\circ}\) 白"
500 IF a \(2 \mathrm{a}<3\) THEN PRINT AT a2d,a2a;" \({ }^{n}\) : LET a2a=24: GO TO उOb
510 IF ald>19 THEN PRINT AT aid, ala;" ": LET hits=hits+is LET ald=5: GO TO 3
520 IF a2d>19 THEN PRINT AT a2d,a2ag" ": LET hitsmhits+1: LET a2d=5: GO TO
300 IF a3d>1日 THEN LET hitsmhts*1: PRINT AT a3d; 3 3a;" ": LET a3d=5: LET a3a
\(=\) INT (RND 29 ) +11 GD TO 30D
540 IF a4m>2日 THEN LET a \(4 a=1:\) GO TO 300
```



```
N
T AT 4,a4a;" l"" BEEP .DE,-10: PRINT AT 4,a4ā" ": GO TO 300
    590 IF \(f=1\) THEN GO TO 800
    599 GO T0 360
```



```
    610 LET oldd=posd
    620 LET oldd=aldd-2
    630 PRINT T oldd, oldi GRIGHT 1;"r-H"! PAUSE S: PRINT AT oldd, oldp" "
    632 LET olddwoldd-2
```



```
    651 LET oldd르이 dd-4
    653 LET aldd=oldd-4
```



```
    655 LET alddeoldd-4
```



```
\(\because\)
    665 LET oldd=aldd-2: PRINT AT oldd, old ERIGHT 1;"ธ্H": PRINT AT oldd, old;" "
```



```
    \(\mathrm{m}_{1}\) LET aldeSi LET ala=INT (RND*29) +1 : GO TO 300
    bay IF old-1=aza AND oldd<Ea2d THEN LET s=s+10: EEEP.1,7: PRINT AT a2d,a2k;"
        ";AT a2d,a2a;" ": LET a2d=5: LET a2a=INT (RND*29)+1: GO T0 300
    681 IF oldma3a OR old+1=a3a OR old-1=a3a AND oldd<=a3d THEN LET s=s+18: REEP.
1,13! PRINT AT a3d, a3a;" ";AT ajd,a3a;" ": LET a3d=5: LET B3a=INT (RND*29) +
is go To 300
    700 LET \(f=\) d
    710 GO TO 300
1000 IF s>hs THEN LET hs=s: FOR \(9=0\) TO \(7 \%\) BORDER g: BEEP .01,g-1: BEEP .005, o+1
```



```
new high ecore" "t PAUSE 100
1910 CLS : BEEP . 4,2: BEEP . 4,-3: PRINT "Another game(y/n)?ng INPUT as
1020 IF 旬多"の" OR asm"N" THEN STDP
1030 G0 T0 17
```



```
S.Forde"
8010 PRINT ." \(A f t e r\) an accident at a chemical factorv, group of cells have es
capediand will destroy the world...."
BDRD PRINT "UNLESS..."
BOS PRINT "You can stop them with your INTERGALACTIC MEGABLASTER (gun, to
you)"
Ob40 PRINT ."*1-left O-fire" 2-right"
8050 PRINT " b-fire"
E50D PALSE D: GO TO 10: RETURN
```



```
9004 DATA \(60,126,219,255,199,195,126,60\)
9106 DATA \(60,66,165,129,195,189,66,60\)
9008 DATA \(66,32,130,0,32,136,0,14 日\)
9010 DATA \(32,0,6,32,0,144,0,129\)
```

```
9019 DATA 1,1,35,35,127,195,255,126
9020
    255,126
9030 DATA 0,0,1,1,3,127,7,6
9040 DATA 0,0,126,128,192,254,224,96
905% DATA 60,126,153,255,129,
    23:,126,64
9066 DATA 126,153,255,219,231,1日9,
    129.126
9100 RETURN
```

BONUS
レエu世3．
SCORE 2990
CORR ${ }^{\text {COOR } 4}$


Screen dump for Hunch used to use for a joystick with their computer．
On August 22 nd Cheetah Marketing will revolutionise the concept of joysticks． CAN YOU WAIT ！ The age of the


Screen dump tor Starfox
$\theta$
3
A+

Sersen damp for Cells


```
SCORE 23S MITS 14 MI-BCQRE R
```

SCORE 23S MITS 14 MI-BCQRE R
\#

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                                    #
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                                    LondonECIR3DJ
                                    Tol 018334909
                                    恠er 8954958.
    

Tape Mryazimat great utilites all for onty £5 99. Available for Spectrum, Atari, Vic 20, BBC B, and CBM 64 through W, H . Smith, Menzies and computer stores.
Really use your computer this summer.

## Clever Clogs

8 great fun games for whizzkeds. Change the difficulty with data packs on Science, The Arta \& General Knowledge.

On sate in W.M. 5 mlth . Keep your Clever Clogs busy all summer longl Available for Spectrumat $\mathbf{f 6} 95$.

## Mind Games:

Recently launched, the new name in quality strategy and adventure games. Top witers and programmers open the door to the world of imagination and fantasy.
Have an adventure this summer with Star force Seven, Quest for Eternity, and

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## Fat of home

Five mifition barbarlast, an arriy or two of Perslans, several thousand upset Armeniana, fifty legions of linerant Italians. ..... . and youl

Have a holiday at home and save cinllisation. Avallable for Atari, BBC B, Spectrum \& Commodore 64.


The Game Lords join the Argus Press team. Consistently in the top ten with great games like Ant Attack, Boogaboo, Fred, Mined Out and Snowman. Prices from $£ 4.95$ to $£ 7.95$. Available from W.H. Smith, Boots and Menzies and leading Computer Stores worldwide.

## Mr Dig CBM 64 ع8

Mierodets, 4] Trure Rd, St Austell, Cornwall PL75 \$JE

This is a verston of Mr Do for the Commodore 64

The aim to to kill four Meantes who move ground she tumpels which you dig. Do this by aliowing in ball or dropping an apple ot thens. Katang all the Metnies will send you on to the nexl screen

After a whie the Meanies matate and turn into Mirets who dig then own turnels If you eat the treat at the centre of the screen then the Meanes/Moners will become undfrozan. Killatg five Letter Mobsters will give you tree life.

In pranczpte it sounds camplicated anhough afier some practere it becomes enteraining and very addictive
Sound and graphics are both
very good. There is ciearly a diose resemblance between this and the arcade version
Leading ts wery fast - it only takes about three minutes Microdeal has ithorporased uts own fast loadrig system and I *wat it 5 more reliabe than that used by most other comprnses. So far I've not had any toading problems.

आม่structions
$70{ }^{7}$
prayabialy
$70{ }^{4}$
graph is
8 80.
value for money

## th the 5 5 5 ? 5

## Cassette 50 CBM $64 £ 9.95$

Cascade Gamts. Sute 4, 1-3 Haywra Cresc. Harrogate HG1 5B4

This is one of those amazing sapes which offer you 30 games on orte cassette, all are writen in BASIC They're farly short and simpie $A$ wide variety of subjects are inciuded to sut all raster.

The quality isn't very good I Ifound the games slow and boring and bot very user friendiy On one prografl the insirtetions gave the the wiong kers to use and 1 had to list the program to find out whal to press Another frame whe unplayite on a black and whic TV because the colours used were very similar
shades of grey The full lost of fauls is 100 long to meation here frysucks aren $\ddagger$ Lthized very offen; the keyboard is used trost of the ture.

Brief instructions are suppled with the cassete. All directions are given on a menta sireen with each game

Graphiss and sounds would be very impressive if they were produced by a standard IK Z. 80 but as for the CBM 64... need : say more?

No loading protlems were encountered - at least they ve gol somethrig nght lit.

Instructions $\quad$ Ifio
plavability $\quad 100^{m / g}$
eranher
value tor money
$100_{0}$

## Star Trooper CBM 64 E5.95

Melbourne House, Chursh Yd. Tring, Herts HP23 \$1.U

Star Trooper is yet atother version of the ever popular Sphace Invaders/Galaxian theme. The object of the gasne is to thoot the enemy lovadera which move fram arde te side and down the screen

You control an sull man with - Jel-pack on bis beck. Move ment li very simple - your jaystick will move your man while held in tirection, If would have been buce if anerus had been tricluted To shoot the enemy you press the fire button which releases miksile in the direthog you are facing,
The graphles encorporite some goed scrolling effects in the background and include quite good detal on your playing man Other than this they are fandy istandard

There is quite on interestung Finythm playing when the progrim is wathan for you to start the game. However, the sounds used during play are nothing spectal.

Enclased with the cassette is a cerd wheh you may fll in end send nway so that Melbourne House can keep you informed of any new sofiware,

Instruction:
30 里
playablity
$50 \%$
graphrics
value for menncy 40 F

# Games, games and more games 

## Here's a selection of games for Commodore, Spectrum and TI-99/4A. Read what our reviewers think before you buy

## The Wrall TI-99/4A £6

Statnless, 10 Alstione Rond. Stockpork. Cheshire

A wicked wizard has tel you the task of clmbing caste walls. For every wall succextifully scaled points gre Imarded, but on exth there are forces of spritely adversartes ponsed to atiack. archers, dragons, witches on breomstucks and multhcoloured cannonballs, just to mention a few
Sefore entempuing to bid for freedom you need to study their moves caucfully On each screct the altachers, and the way in which they travel, are different.

A collsion loses a life, bul for every 500 ponnts there's a bonus life. The game ends when all lives
are lost and the core displayed, If you re ucky this may be high enough 10 guar fy your name to be eltered in the Hall of Fame Contral is from keyboard or jovstick You are anabie to start untul the alpha lock is up, useful fenture if you utend using the joyszick option.
1 can't sty exactly how many different screens there are 10 survive. Ten was the most 1 coutd manage and there are more. There's certanly enough varuely to keep you hosked on trying. Needs Extended BASIC. J. W.

## nstructrons

playabiliry
graphecs
value for maney

## 3

## Deve Menture ara spatinam E5.95

Fillicon Computing, 65 Earmsdaic Rd, Darwen, Lancs
"If I were a nich man ' anmonn ces the tosading al a prograts hat will cest whether yens cars sarvite in business New tenture suarls wits foll, simple instractatats You have 125 , $\mathbf{x} \times 0$ and the anm is to be able to tilord the ulimate in laxuries - the priceses fatennmobit

There are six fetal busmexsen four sules and seven opions. commenee trading, udverth, visi bank munaper, check bank statemenl, हiect or update stock make msurance inturies of quad Your $2 X$ printer Lag copy the list. The propatin contans an yearly inflatonary figure - 50 that E15,000 shop (where?) costs $\{30,000$ ип 2001.

As the game proceeds you are offend vartout luxuries, the acquisilion of whelt gatins polnts Sudaen burglaries, fites or accidents reduce your profits, uniess insturapec has been obtatr ed yoar blaff put in for a pay rise. Al the entd of each round when a month's Irading Cinishes, pages of lyading levels of citch saicable item are shown in gragh日and percenlage tofm, then racte figures and a bank statement

An tnteresing idea, with a PG rating suttab e for shtell gent peopie above the age of is
T.W
instructıons
plasab lity
graphtes
vaue fot moncy

924\%
$800^{0}$ $40^{\circ} \mathrm{E}$ $75 \mathrm{~B}_{6}$

## tters Letters Letters <br> Letters L ors Letters Letters Letters Let

## Practise <br> makes <br> perfect

Winh reference to L . Treece's letter about Jet Set Wrlly (HCW 70), he clams that unless you remove an orange brick in the sheet, named 'The Banyan Tree', it is impossible to reach 'The Conservatory Roor.
I have had my Spectrum 48K for about a year, and i bought let Set Willy about one month ago
] play this game resutarly, as it is my favourite game at the moment,

1 have managed to find 67 rooms, and ore of them ${ }_{15}$ 'The Conservatory Roof'
To get inere is fairly easy, except for The Banyan Tree' which qakes a tof of practuce
Once you get on the first pile of orange bricks, you fave to wat untal the razor goes past you on tts way down, then jump lefi twice until you are in a safe place on the third pile of orange bncks.

I should point out that all of these movements should be done wilhout a pause or you will be kil.ed,
When all is clear, you can jump left egatn onto the stascase and go down Then you can go teft to enter the next screen called The Swamming Pool'
All you have to do here is exit left, bringing you to a sheel called the West Wing'

This screen is simple Jusi go up the indder If you keep going up (following the ladders going 'up right'), yout should pass 'The West Wing Roof' and "The Orangery.'
Still follow the ladder 'up right and you will find 'The Conservatory Roof' I hope ihis information helps L. Treece, and other Jer Sel fans too!
K. Wittrs, Gravesend, lient

## ret the

pleture
Whenever a new computer game is released onto the market, it usually has a fantasuc looking cover on the package - which seemts to cause rantung and raving about how good the game wall be.
That is, until somebody plays the game.
Instead of hs-resalution graphical portrayals of the characters and objects, there are blobs seemingly
portraying the woutd-be characters, with slow resporise to the joystick or keyboard.
Therefore, may I suggest a change in the taw so that all games retailed must have ar origisal picture of the gatne on the packise,
Alternatively, in independent group of elected members, to write the revews for the game that is prnted on the package so there will be no blased reviews for the software, Nict Buldwla, Sydney, Antiralin

## proud $2 \times 31$

## owner

I have pul pen to paper because t am Jed up with people who think the ZXB: is old and unpopular.
I have owred a 2X81 sunce last Christmas, and I am more than happy woth the machunt.
A few days rgo I went to E computer shop in my area, and t'tn sure that the salesman didn't even know what a ZX81 was.
Stevel Howlett, Swatrea

## +iges fat <br> ingeno

Thanks to M Livingstone (HCW 74) for the code for Manc Miner
Here is the cheat mode for Revenge.
Load the game, and type If (goat) at the stast of the patine, or anytume after
This enables you to leave any screen by pressing any key, and you can go through to the last scretn this way
Mr. J. Deindile, Liverpool

## Pricey $r^{2}=$

pens?
I feef that t must write and warn any potental buyers of the Commodiore 1520 prinier/plofter of the hidden expense involved when using this otherwise excellent machune

The pruter uses four small ball-poiat pers of different colonrs, and, these soon run dry

The cost of zenewing one st of these is a staggerng $E 00$.

At thus rate, I'll have to save-up to be able to use the machine in the future

Another ponat 5 that these pens are not sold individually, although one colour is used much more frequently than the other

## three.

I empate the 1 have used about il-worth of materal in writing itus leiter alone

I would be interested to hear any comments Commodore wishes to make.

1. Holmon, Clatesw

## +1 6 <br> 요15

I would lake to inform all Ti-99, 4A owntrs, that the FI does not just have one character set - it has five or $51 \times$

The first starts at CHRS (2B6), the cursor, and ends al CHRS (CHR5 (382), the Fulde.
The next slants at CHRS (542).

Vertical purple lines can be found at CHRS (416-423) and ( $161-167$ ).
Could anyone tell me why this character sel exists?
Mrys Wallleed, Liecole

## Good

## looking

I $2 m$ the owner of $a 48 \mathrm{~K}$ Spectrum, and I have jusi worked out how to put a professional touch to ald of my programs
Before you type in your program, save these two routines:

10 BORDER O: PAPER 0: CLS
20 PRINT AT 10.10;
PAPER I: INK 6:
FLASH 1: "Please
Walt"
30 INK 0
40 LOAD $4 *$ CODE.
PRINT AT 0.0; LOAD
SAVE "program name" LINE 10

In the rext routure you design your own tifle screen You can do this by using the normal PRINT and DRAW commands, or by using User Defined Graphics.

Make sure yous include your own personal company name (it appicsable), the auihor's name and the name of the program tiself
Aiso, leave the top line blank, as this is where the 'program 2' comes up.
Once you have done thes RUN your program and SAVE ir by entering SAVE
"1" CODE 16384,6912
Now wrte your progrdm and SAVE it usug SAVE
'2'’ LINE I
If your progran does not shart at line 1, then change

LINE 1 to whatevet Jne you staried al.
Now you are ready to 1ry out your program Rewind the cassette and enter LOAD *"' and watch your own proftrssional program load inself, and aummatic-


1 would also like to know if anyome can help me $]$ have been trying for ages to try ard antmate my graphucs property as $3 n$ games bke Jet Sel Willy
If anyone knows how to do thus, cousd they let me

Tonnte McCall, Crmblag. ton, Northumberiand

## Esharn

## G2x, 9

After spending a Jong tame truag to ashueve a screen of $25 \times 30$ ( 1 could not understand the compleathons of other verstons), I have compled this program for the VIC- 20 for all begmers with a l6K RAM pack
When run, a load of 'sarbage' wall appear on the screen itad will be wiped ofl soon after

Unfortunately, you can't print' on the expanded screen, you have to "poke" the characters on the screen
Poke starts at 40\%, and finushes where requared

Before writing in the matit program, you have to move Basc 10 Ellow for the exiended screen memory

POKE 45,3 POKE 46,20'
POKE 20'256,0' POKE
43,1. POKE 44,20
NEW
Now write in the man program

10 POKE 36866.23
29 POKE 36864,9
30 POKE 36867,60

* POKE 36865,24

50 for $\mathrm{A}=4096$ to
60 POKE A. 32
70 POKE $A+33792,0$ NOXTA

This 15 how the program works. 10 increases screen horizontally, 20 centre screen horizontally, 30 incteases screen verticalv, 40 cenite screen vertically; 50 to 80 wape off garbage of screen.

When the program has finislied, by moving the cursor dowe it will also go back silghtly so this program would be best Anngled ip with a game. Andy

## Working it

## out

I saw a very useful program by Luncoln Woolsey (HCW 70) - a program thas looked as if it had been NEWed, and you could get in by pressing a secret key
I tried it, bui il didn't Work forme The firsl part 15 raght , that is add it to the beginning of youz personal files etc, and saved with an aulo run it wili then load and appear to NEW itself.

This program should read.
10 POKE 23613.87
20 CLS
PAPER 0: CLS: FOR
9-I 10 300: NEXT q.
PAPER 7 CLS
40 PRINT at 21. 0; "(c)
1982 Stnclair Rescarch LId"
50 If JNKFYS = ""THEN GOTO 50
60 CLS
7 FIRINT at 21, 0 .
FLASH INKEY
THEN GOTO 100
90 GOTO 80
100 PRINT 的
日2 21, 0
FLASH 1. "Entry
Given'
One of the thargs he did was to put " "" instead of a in lines 70 and 100.
On another point, could anyone tell me how 10 get past the first sheel of Jack fard the Beanstalk

I've tried many a time bui for some reason I either fall of or a bird gets me
Finally. I must congratulate Ultimate for thal great game Sabre Wulf [ gol at two days ago and already I've scored 36,870 which 1sn't bad for my standerds.

I gel your magazine every Week and it thonk it's great Philip Rewilins, Delhnven, Exyt Lothian

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[^3]
## INTERFACE for the ZX SPECTRUM



* Uses no memury or back up aff-ware and is net powar dependent.
* Accepts any foystick, including Quickshot II with 'rapid fire' or trackball.
* Side entry joystick sockel maintains the low profile of the system.
- Recessed Computer Reset button for clearing machine code games without pulling the power plug.
* Low power design - up to five Prolocol 4's can be simultaneously connected for multiple control applications - only possible with the hardware programmed design appreach.
- Fully guaranteed for 18 months.
 CHOOSE AGF


[^0]:    Home Computing Weekly is published on Tuesdays. Subscriptions and back issues: Infonet Lid, $10-13$ Times House, 179 Mariowes, Hemel Hempstead, Heris HP1 1BB, 044248432. Trade distribution: Argus Press Sales and Distribution Lad, 12-14 Paul Street, London EC2A 4JS. 01-247 8233. Printed by Alabaster Passmore \& Sons, Lid, of London and Maidstone, Kent. Design and origination: MM Design, Circus House, 26 Little Portland Streel, London WIN 5AF

[^1]:    This space is donated in the intereske of high standards of advertising.

[^2]:    Starfox How hit works

    ## 4-6 titte page

    $40-170$ mana loop
    910.940 tune subrounne

    1060-1020 varrables
    M10-4010 UDGis
    $50110-5030$ Inseructions
    6000-6040 end of game

[^3]:    
    

